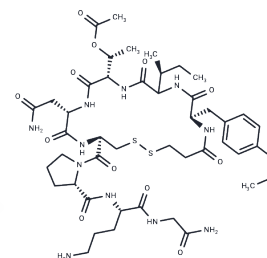


Atosiban acetate

Chemical Properties

CAS No. :	914453-95-5
Formula:	C45H71N11O14S2
Molecular Weight:	1054.24
Storage:	Store at low temperature, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Atosiban acetate (RW22164) is an inhibitor of the hormones oxytocin and vasopressin. It is used as an intravenous medication as a labour repressant (tocolytic) to halt premature labor. Atosiban acetate (RW22164) inhibits the oxytocin-mediated release of inositol trisphosphate from the myometrial cell membrane. As a result, there is reduced release of intracellular, stored calcium from the sarcoplasmic reticulum of myometrial cells, and reduced influx of Ca ²⁺ from the extracellular space through voltage gated channels. In addition, Atosiban acetate (RW22164) suppresses oxytocin-mediated release of PGE and PGF from the decidua. In human pre-term labor, atosiban, at the recommended dosage, antagonizes uterine contractions and induces uterine quiescence. The onset of uterus relaxation following atosiban is rapid, uterine contractions being significantly reduced within 10 minutes to achieve stable uterine quiescence.
Targets(IC50)	Vasopressin Receptor, Oxytocin Receptor

Solubility Information

Solubility	DMSO: 132.5 mg/mL (125.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.9 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9486 mL	4.7428 mL	9.4855 mL
5 mM	0.1897 mL	0.9486 mL	1.8971 mL
10 mM	0.0949 mL	0.4743 mL	0.9486 mL
50 mM	0.019 mL	0.0949 mL	0.1897 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Akerlund M, et al. The effect on the human uterus of two newly developed competitive inhibitors of oxytocin and vasopressin. *Acta Obstet Gynecol Scand.* 1985;64(6):499-504.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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